

ABSTRACT

Embodiments of the invention provide a system for temperature control of the human body. The system includes an indwelling catheter with a tip-mounted heat transfer element. The catheter is
5 fluidically coupled to a console that provides a heated or cooled heat transfer working fluid to
exchange heat with the heat transfer element, thereby heating or cooling blood. The heated or cooled
blood then heats or cools the patient's body or a selected portion thereof. In particular, methods and
devices are provided for control and determination of the pressure within the heat transfer element.

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